

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A junction lens device made by joining a high refractive lens and a low refractive lens using an adhesive, wherein a coating layer for index matching is formed on a surface of at least one of the high refractive lens and the low refractive lens contacting the adhesive to reduce a reflection ratio on a junction surface.
2. (original) The junction lens device as claimed in claim 1, wherein the coating layer is formed such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.
3. (original) The junction lens device as claimed in claim 1, wherein a difference in refractive index between the high refractive lens and the low refractive lens is not less than about 0.15.
4. (original) A junction lens device made by joining a high refractive lens and a low refractive lens using an adhesive, wherein a coating layer is formed on a surface of at least one of the high refractive lens and the low refractive lens contacting the adhesive so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%.
5. (original) The junction lens device as claimed in claim 4, wherein a difference in refractive index between the high refractive lens and the low refractive lens is not less than about 0.15.
6. (original) A zoom lens optical system including at least one junction lens device made by joining a high refractive lens and a low refractive lens using an adhesive,

wherein in the junction lens device a coating layer for index matching is formed on a surface of at least one of the high refractive lens and the low refractive lens contacting the adhesive to reduce a reflection ratio on a junction surface.

7. (original) The zoom lens optical system as claimed in claim 6, wherein the coating layer is formed such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

8. (original) The zoom lens optical system as claimed in claim 6, wherein a difference in refractive index between the high refractive lens and the low refractive lens is not less than about 0.15.

9. (original) The zoom lens optical system as claimed in claim 6, further comprising a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, wherein the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

10. (original) A zoom lens optical system including at least one junction lens device made by joining a high refractive lens and a low refractive lens using an adhesive, wherein in the junction lens device a coating layer is formed on a surface of at least one of the high refractive lens and the low refractive lens contacting the adhesive so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%.

11. (original) The zoom lens optical system as claimed in claim 10, wherein a difference in refractive index between the high refractive lens and the low refractive lens is not less than about 0.15.

12 (original) The zoom lens optical system as claimed in claim 10, further comprising a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, wherein the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

13. (original) A camera including a zoom lens optical system, wherein the zoom lens optical system comprises at least one junction lens device made by joining a high refractive lens and a low refractive lens using an adhesive and, in the junction lens device, a coating layer for index matching is formed on a surface of at least one of the high refractive lens and the low refractive lens contacting the adhesive to reduce a reflection ratio on a junction surface.

14. (original) The camera as claimed in claim 13, wherein the coating layer is formed such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

15. (original) The camera as claimed in claim 13, wherein a difference in refractive index between the high refractive lens and the low refractive lens is not less than about 0.15.

16. (original) The camera as claimed in claim 13, wherein the zoom lens optical system further comprises a front lens for receiving information from an object, a zoom lens for forming an image, and a focus lens performing a focusing function, and the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

17. (original) A camera including a zoom lens optical system, wherein the zoom lens optical system comprises at least one junction lens device made by joining a high refractive lens and a low refractive lens using an adhesive and, in the junction lens device, a coating layer is formed on a surface of at least one of the high refractive lens and the low refractive lens contacting the adhesive so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%.

18. (original) The camera as claimed in claim 17, wherein a difference in refractive index between the high refractive lens and the low refractive lens is not less than about 0.15.

19. (original) The camera as claimed in claim 17, wherein the zoom lens optical system further comprises a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, and the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

20. (new) A method of manufacturing a junction lens device comprising the steps of:

forming an index matching layer on a first lens having a first refractive index; and
joining said first lens to a second lens having a second refractive index with an adhesive;

wherein said adhesive has a refractive index closer to a refractive index of said second lens than said first lens, and said index matching layer has an index of refraction between the index of refraction of the first lens and the index of refraction of the adhesive.

21. (new) The method of claim 20, wherein said adhesive has a refractive index substantially similar to the refractive index of said second lens.

22. (new) The method of claim 20, wherein said index matching layer has a refractive index selected to minimize reflection in the junction lens device.

23. (new) The method of claim 22, wherein the refractive index of the index matching layer is substantially equal to the square root of the product of the index of refraction of the adhesive and the index of refraction of the first lens.

24. (new) A junction lens device manufactured using the method of claim 20.